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CLIMATOLOGICAL SUMMARIES

VISIBILITIES BELOW 1/2 MILE
AND CEILINGS BELOW 200 FEET
Volume 32

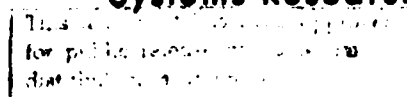
PITTSBURGH, PENNSYLVANIA
GREATER PITTSBURGH INTERNATIONAL AIRPORT

June 1969

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DEPARTMENT OF TRANSPORTATION
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Systems Research & Development Service



by

U.S. DEPARTMENT OF COMMERCE
Environmental Science Services Administration

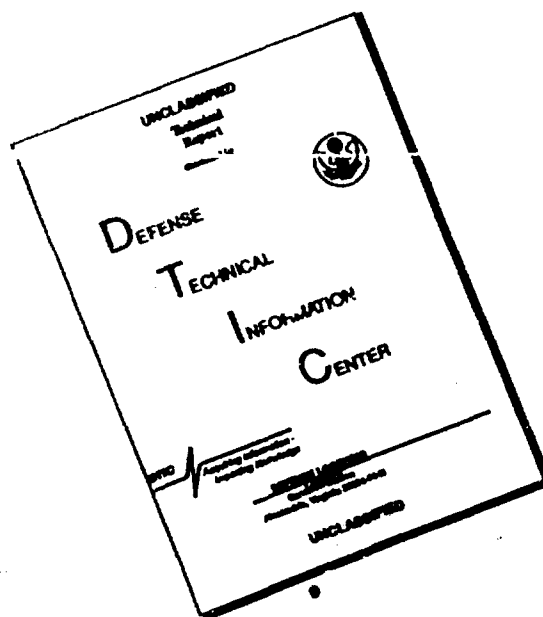
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CLIMATOLOGICAL SUMMARIES

VISIBILITIES BELOW $1\frac{1}{2}$ MILE
AND CEILINGS BELOW 200 FEET

JUNE 1969

This report has been prepared by U. S. Department of Commerce, Environmental Science Services Administration, Environmental Data Service, National Weather Records Center, Asheville, N.C. for the Systems Research and Development Service, Federal Aviation Administration, under Contract No. FA-67-WAI-129. The contents of this report reflect the views of the contractor, who is responsible for the facts and the accuracy of the data presented herein, and do not necessarily reflect the official views or policy of the FAA. This report does not constitute a standard, specification or regulation.

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3. 2200-0659 Local Standard Time
4. All Hours

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INTRODUCTION

The tables contained herein have been prepared and organized for use in evaluating the cost/benefits of all weather landing systems and fog dissipation techniques. Thus, the time intervals of duration of the categories of weather are significant in determining the times of the delay, diversion or cancellation of an aircraft flight resulting from a restricted weather category. This information together with the number and types of aircraft affected by the restricted weather and the costs of a delay, diversion or cancellation combine to provide the total costs resulting from the weather restrictions.

Climatological summaries have been prepared for 41 airports. Their location and associated volume numbers are listed in Table A.

ENVIRONMENT AND INSTRUMENTATION

PITTSBURGH, PENNSYLVANIA

GREATER PITTSBURGH INTERNATIONAL AIRPORT

The Greater Pittsburgh International Airport is situated on a hill, nearly surrounded by valleys. The surrounding country is rugged in character with hills rising between numerous small river valleys. The highest point in the vicinity is 1340 feet above sea level.

At times heavy ground fog develops along the river valleys and winds with a trajectory from the southeast, south, or southwest may cause the fog to overflow the valleys and drift over the airport.

The tables in this publication are based on the period January 1, 1956-December, 1965. Ceilometer measurements of ceiling height were made for the entire period. Transmissometers (500 ft. baseline) were commissioned on runway 28L on June 10, 1957, runway 10L on April 30, 1964, and (250 ft. baseline) runway 28R on December 9, 1965. Location of the airport weather station, its elevation, and the height of wind instrumentation were as follows:

<u>From</u>	<u>To</u>	<u>Lat. N.</u>	<u>Long. W.</u>	<u>Height of Wind Instrument Feet above ground</u>	<u>Station Elevation Feet above MSL</u>
1- 1-56	10-23-58	40° 30'	80° 13'	119	1151
10-24-58	12-31-65	40° 30'	80° 13'	20	1151

NATURE OF DATA

The data used in the preparation of the climatological tables were extracted from 10 years of WBAN 10-A forms from January 1956 through December 1965. There were two exceptions: The data for Dulles International covered the period January 1963 through December 1965 and for Kansas City-Mid-Continent the period July 1957 through December 1965. All data (Record, Special, Local, Check observations)* were recorded on punched cards to the hour and minute whenever a change occurred in the ceiling, surface visibility, present weather, runway visual range or runway visibility during the time the ceiling was less than 200 feet and/or the surface visibility was less than 1/2 mile. The observation which ended a category of the above conditions was punched and if this observation was not a Record observation, the next Record observation was punched. The elements transcribed were: the time in hours and minutes, ceiling, surface visibility, tower visibility, present weather, temperature, dew-point, surface wind, altimeter setting and remarks concerning runway visual range and runway visibility.

These data should prove to be a valuable source for additional studies where low visibilities are considered.

Runway visual range (RVR) is the operational weather criteria for airport landing systems. The limits of visibility conditions for categories of aircraft operations are presented in Table B. Only Cat. II criteria are currently operational. Because RVR as such, is not available on a uniform basis for the station and period of record under study, visibilities and ceilings were used for delineating categories of weather minimums for landing and take-off operations. The determination of RVR would require:

1. The light setting of the edge lights,
2. the background lighting,
3. the location with respect to runway,
4. a special analyzer to integrate the transmissiometer readings etc.

This information has not often been recorded with the transmissiometer data.

* Except Kansas City - Mid-Continent. Only Record (hourly) observations were taken during the period of record at this station; 16 hours per day (0700-2200) through November 1957 and 24 hours per day December 1957 through December 1965.

EXPLANATION OF TABLES

All the tables of climatological summaries except Table C are based on the reported visibilities of less than 1/2 mile and/or ceiling less than 200 feet.

The tables of climatological summaries in these publications include:

- (1) reported visibility and ceiling values versus time intervals of duration.
- (2) weather categories of aircraft landing systems based on their relationship to ceiling and visibility as presented in Table C, versus intervals of duration. This is Table X only.
- (3) percentage frequency of wind direction versus wind speed for each category of aircraft landing system using the relationship of Table C for Record observations only. These are presented for 13 stations only. This is Table XI only.*
- (4) weather categories of landing systems based on their relationship to ceilings and visibility as presented in Table E, versus intervals of duration. These tables are also summarized on the basis of wind speed and temperature values.

* These stations are:

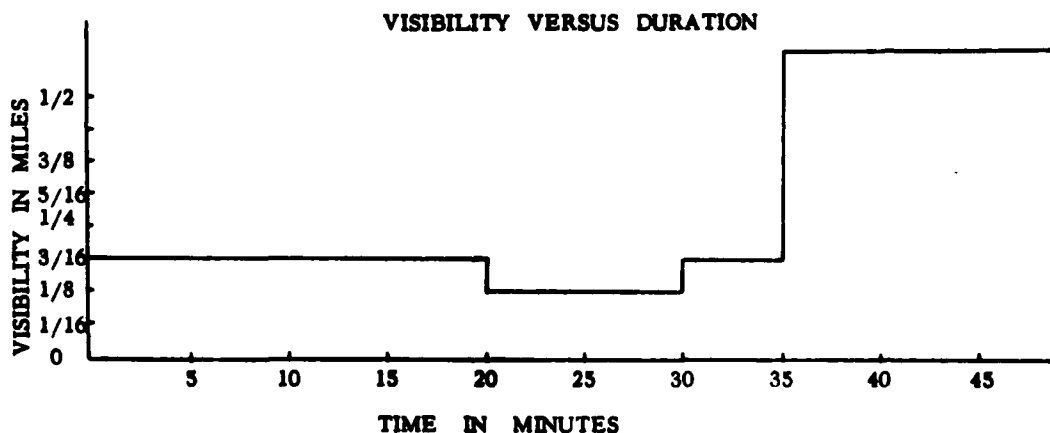
Los Angeles International, Oakland International, Chicago O'Hare, San Francisco International, Greater Buffalo International, Washington National, Washington Dulles International, Atlanta, Newark, New York J. F. K., Philadelphia International, New York La Guardia, Cleveland Hopkins International

REPORTED VISIBILITY AND CEILING VALUES VERSUS INTERVALS OF DURATION

Nine summaries are presented. In Tables I - V the values represent the individual incidents of specified ceiling and visibility. Thus, in Table III 3/8 mile visibility with 100 ft. ceiling occurs with a specific frequency for each interval of duration.

In Tables VI to IX, the frequency of occurrence represents visibilities for specific conditions of ceilings at or below the listed visibility. They are cumulative incidents wherein the total time at or below a certain visibility value for the ceiling value specified is considered as one incident. Thus, if in Table VII there are 172 incidents of 3/8 mile in the interval of 1-15 minutes, it represents 172 times during the 10-year period that visibilities 3/8 mile or less with ceilings 100 feet.

Another example which combines the entries in the individual and the cumulative tables is as follows: If visibility is distributed as shown in the figure, for ceiling 100 feet, if for 20 minutes the visibility was 3/16 then went to 1/8 for 10 minutes, then went to 3/16 for 5 minutes and then to greater than 1/2 mile visibility in Table III there would be 2 counts for 3/16, one under 16-30 minutes and one under 1-15 minutes; and one count for 1/8 under 1-15 minutes; whereas, in the cumulative table for visibilities at or below a given visibility with 100-foot ceilings - Table VII in the 3/8, 5/16, 1/4 and 3/16 mile categories there would be one count under 31-45 minutes (actually 35 minutes) and one count in 1/8 mile category under 1-15 minutes (actually 10 minutes).



To estimate the total time of occurrence for a particular interval of time for the period of record one multiplies the average of time period by the frequency of occurrence of the specified conditions for this time period. Thus, if visibility of 3/8 mile with ceiling 100 feet (Table III) occurred 14 times between 16-30 minutes, the estimated total time would be 14 x 23 or 322 minutes.

WEATHER CATEGORIES OF AIRCRAFT LANDING SYSTEMS VERSUS INTERVALS OF DURATION BASED ON TABLE D

A single table (Table X) based on Table C for the period of record is presented. Table C is based on the current practices relating RVR to meteorological visibilities as shown in Table D.

Table X is in three sections:

Xa. Frequency of occurrence of the landing categories versus the indicated duration intervals:

In this summary Categories II, IIIa, IIIb, and IIIc are represented by the frequency of these conditions occurring during the specified intervals.

In Category II + III the frequency represents the visibilities and ceilings at or below Category II weather, i. e., below 200 feet and/or 1/2 mile for a continuous period of time.

In Category III, the number of occurrences represent the frequency the weather was in in Category IIIa and IIIb/c i.e., observation below 1/4 mile and equal to and above 1/4 mile when the ceiling is reported as zero for a continuous period of time.

Xb. Total time in each duration versus the duration intervals in hours and tenths of hours. The entries in this table are arrived by adding the times in minutes associated with the frequencies above. These totals are converted to hours and tenths. This table also contains the percentage of time for the 10-year period of observations of specified duration intervals, i. e., 1-90, 91-all, 1-all. This table is derived by dividing the total time under each category for the specified duration interval by the total number of hours. Thus the percentage value for Category II + III the 1-all group (last column, 4th value down) represents the frequency of occurrence for the ten-year period in percent of visibility and ceilings below 1/2 mile and/or 200 feet.

Xc. Average time in each duration versus the duration intervals.

This table is derived by dividing the total time in minutes of each item in Table Xb by the frequency of occurrence in Table Xa.

WIND DIRECTION VERSUS SPEED BY PERCENTAGE FREQUENCY (Table XI)

Table XI (for 13 stations) (unnumbered on summaries) show the percentage distribution of the different categories in accordance with Table D by wind direction to 16 points versus specified speed intervals. These categories, II, IIIa and IIIb/c, are divided into 2100-0500 and 0600-2000 hour groups making a total of six sub-tables.

Only the hourly (Record) observations when Category II or below conditions exist are used in these summaries. The percentages are determined by dividing the number of hourly observations which were recorded during the entire period of record for the indicated hour group. The percentage figures can be combined to obtain percentages for the quadrants of different speed intervals.

WEATHER CATEGORIES OF LANDING SYSTEMS VERSUS INTERVALS OF DURATION BASED ON TABLE E

Nine tables XII - XXI are presented for the ten-year period. These tables are presented in three sections:

a. Frequency of occurrences of landing categories versus duration intervals:

Categories II, IIIa, IIIb, and IIIc are represented by the total time for the specified hour group that these conditions occur during the indicated intervals.

In Categories II + III the frequency represents the visibilities and ceilings at or below Category II weather e. g., below 2400 RVR. In Category III the frequency represents the visibilities at or below Category III weather e. g., below 1200 RVR.

b. Total time in each duration versus the duration intervals hours and tenths.

The entries in this table are derived by adding the time in minutes associated with the frequency above and converting them to hours and tenths.

c. Average time in each duration versus the duration intervals.

This table is derived by dividing the total time in minutes of each value in b by the corresponding frequency of occurrence in a.

In these tables, since the period of duration is the important element, each incident of weather is attributed to the hour group during which it began. Thus, if Category IIIa weather began in the 22-06 hour group and continued into the 07-13 hour group the total time is placed in the 22-06 group. It is probable, then, that the incidence of the various categories may be overestimated in the 22-06 group. The totals appearing in the all hour group, however, are correct.

The sum of Categories IIIa, IIIb, and IIIc in the all-hour groups and sometimes in the other hour groups are frequently greater than under Cat. III. This results from the addition of 5% of observations of 3/16 mile or greater with ceiling 100 feet added to Cat. IIIa, whereas, this 5% is not included in the Cat. III totals at the bottom of each table.

The difference between Cat. III totals and the sum of Cat. IIIa, IIIb, and IIIc are subtracted from the Cat. II totals for the all-hour group and appears at the end of the Cat. II line with an asterisk. This value is a better estimate of the occurrence of Cat. II weather for the 10-year period.

EXPLANATION OF TABLE E

The relationship of RVR with light setting 5 for a 500' baseline to the meteorological report of visibility, based on the information in Circular N¹/, is given in Table F. This was the basis for establishing the relationships in Table E. The use of the highest setting for the edge lights for approaches in low visibility is the current operational practice. Although the selection of some of the relationships in Table E have been somewhat arbitrary, it can be expected that the observers report of low visibilities and ceilings will be more inexact than the cut off point of these relationships.

¹/ Manual of Surface Observations (WBAN). Circular N, Weather Bureau, Washington, D. C. NAVAIR 501D505, July 1968 (AD672-366)

ACKNOWLEDGEMENTS

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This is one of 41 volumes of Report RD-69-22. The volumes are as follows:

<u>VOL.</u>	<u>CITY</u>	<u>AIRPORT</u>
1.	Anchorage, Alaska	International
2.	Atlanta, Georgia	Atlanta
3.	Baltimore, Maryland	Friendship International
4.	Birmingham, Alabama	International
5.	Boston, Massachusetts	General E. L. Logan International
6.	Buffalo, New York	Greater Buffalo International
7.	Burbank, California	Hollywood-Burbank
8.	Chicago, Illinois	O'Hare International
9.	Cincinnati, Ohio	Greater Cincinnati
10.	Cleveland, Ohio	Cleveland-Hopkins International
11.	Columbus, Ohio	Port Columbus International
12.	Dallas, Texas	Love Field
13.	Dayton, Ohio	James M. Cox Municipal
14.	Denver, Colorado	Stapleton International
15.	Detroit, Michigan	Detroit Metropolitan-Wayne County
16.	Hartford, Connecticut	Bradley International (Windsor Locks)
17.	Houston, Texas	William P. Hobby
18.	Indianapolis, Indiana	Weir Cook
19.	Kansas City, Missouri	Mid-Continent International
20.	Los Angeles, California	International
21.	Louisville, Kentucky	Standiford Field
22.	Miami, Florida	International
23.	Milwaukee, Wisconsin	General Mitchell Field
24.	Minneapolis, Minnesota	Minneapolis-St. Paul International
25.	Nashville, Tennessee	Metropolitan
26.	Newark, New Jersey	Newark
27.	New Orleans, Louisiana	International
28.	New York, New York	John F. Kennedy International
29.	New York, New York	La Guardia
30.	Oakland, California	Metropolitan Oakland International
31.	Philadelphia, Pennsylvania	International
32.	Pittsburgh, Pennsylvania	Greater Pittsburgh International
33.	Portland, Oregon	International
34.	Rochester, New York	Rochester-Monroe County
35.	St. Louis, Missouri	Lambert-St. Louis Municipal
36.	Salt Lake City, Utah	Municipal No. 1
37.	San Francisco, California	International
38.	Seattle, Washington	Seattle-Tacoma International
39.	Syracuse, New York	Clarence E. Hancock
40.	Washington, D. C.	Dulles International
41.	Washington, D. C.	National

TABLE A

LIMITS OF LANDING CATEGORIES

- **CAT. II Operations down to minima below 200 feet decision height and 2400 RVR and to as low as 100 feet decision height and 1200 RVR.**
- **CAT. IIIA Below 100 feet decision height and 1200 RVR and to as low as 50 feet decision height and 700 RVR.**
- **CAT. IIIB Below 700 RVR to 150 RVR.**
- **CAT. IIIC No external visual reference.**

TABLE B

- **Current operational criteria**
- **Criteria not firm, used for planning purposes**

**CEILING AND VISIBILITY EQUIVALENTS FOR CATEGORIES
OF AIRCRAFT LANDING OPERATIONS CURRENT PRACTICE
CRITERIA for Table X and XI**

Category II:	Visibility = 1/2 and ceiling = 100
	Visibility = 3/8 and ceiling \neq 0
	Visibility = 5/16 and ceiling \neq 0
	Visibility = 1/4 and ceiling \neq 0
Category III-a:	Visibility = 1/4 and ceiling = 0
	Visibility = 3/16 and all ceilings
	Visibility = 1/8 and all ceilings
Category III-b/c:	Visibility = 1/16 and all ceilings
	Visibility = 0 and all ceilings
Category III:	The sum of IIIa, IIIb, and IIIc

TABLE C

RVR VERSUS VISIBILITY (Current Practice)

METEOROLOGICAL VISIBILITY	RVR EQUIVALENT
Statute Miles (feet)	Feet
3/16 (990 feet)	1200
• 1/4 (1320 feet)	1600
• 1/2 (2640 feet)	2400

TABLE D

- United States Standard for Terminal Instrument Procedures (TERPs), Federal Aviation Agency, September 1966.

**CEILING AND VISIBILITY EQUIVALENTS FOR
CATEGORIES OF AIRCRAFT LANDING OPERATIONS
Criteria for Tables XII-XXI**

Category II
Below 2400 ft. RVR to
1200 ft. RVR

Equivalent Meteorological Observations

All observations with visibilities greater than 3/8 mile with ceiling 100 feet.

All observations of 3/8 mile with ceiling not equal to zero.

All observations of 5/16 mile with ceiling not equal to zero.

All observations of 1/4 mile with ceiling not equal to zero.

All observations of 3/16 mile with ceiling not equal to zero.

Category III
Category IIIa
Below 1200 ft. RVR to
700 ft. RVR

All observations of 1/8 mile.

All observations of 3/16 mile or greater with zero ceiling.

5% of observations of 3/16 mile or greater with ceiling 100.

Category IIIb
Below 700 ft. RVR to
150 ft. RVR

All observations of 1/16 mile.

50% of all observations of zero miles.

Category IIIc
Below 150 ft. RVR

50% of observations of zero miles.

TABLE E

RVR VERSUS METEOROLOGICAL VISIBILITY

Circular N

Reported Meteorological Visibilities Miles (feet)	RVR (500 ft. baseline) at Setting 5		Category
	Day	Night	
0 (less than 330 feet)	*	*	(IIIc and IIId)
1/16 (330 feet-650 feet)	*	*	(IIId)
1/8 (660 feet-980 feet)	1000-1400	*	(IIId and IIIa)
3/16 (990 feet-1310 feet)	1400-1800	1200-1800	(Cat. II)
1/4 (1320 feet-1640 feet)	1800-2200	1800-2200	(Cat. II)

* No determination of RVR with respect to meteorological visibility.

TABLE F

PITTSBURGH, GREATER PITTSBURGH INTERNATIONAL

FREQUENCY OF INTERVALS OF DURATION VERSUS CATEGORIES OF VISIBILITY JANUARY 1986 - DECEMBER 1986

TABLE I. VISIBILITY $\geq 1/2$ MILE WHEN CEILING ≥ 200 FEET.

		DURATION IN MINUTES									
		1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480
5/8	134	40	10	12	6	0	0	2	1		
3/4	29	10	2	1	1						
1/2	213	113	40	10	22	10	6		1		
3/16	66	10	10	7	5	1					
1/8	61	30	20	17	13	7	0	0	1	1	2
1/16	27	10	10	9	13	3	0	1	1		
0	12	15	19	7	16	4	19	0	0	5	1

TABLE II. (IRRESPECTIVE OF CEILING).

		DURATION IN MINUTES									
		1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480
5/8	134	40	10	12	6	0	0	2	1		
3/4	29	10	2	1	1						
1/2	213	113	40	10	22	10	6		1		
3/16	66	10	10	7	5	1					
1/8	61	30	20	17	13	7	0	0	1	1	2
1/16	27	10	10	9	13	3	0	1	1		
0	12	15	19	7	16	4	19	0	0	5	1

TABLE III. (CEILING 100 FEET).

		DURATION IN MINUTES									
		1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480
5/8	22	10	6	1	1			1			
3/4	6	4	1								
1/2	52	30	6	5	7	4		1			
3/16	14	11	7	2	2						
1/8	30	15	7	0	3	2	2	1			
1/16	14	9	3	2	2			2			
0	5	3	3	3	1	1					

TABLE IV. (CEILING ZERO).

		DURATION IN MINUTES									
		1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480
5/8	9	1	1								
3/4	9	1	1								
1/2	20	7	5	2	4			1			
3/16	12	3	4	1	3			2			
1/8	13	8	3	3	6	4		1	1		2
1/16	11	6	1	5	4	1	2	2			
0	9	14	11	6	13	6	14	9	4	5	1

TABLE V. (CEILING 100 FEET OR ZERO).

		DURATION IN MINUTES									
		1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480
5/8	30	10	5	1	1						
3/4	11	5	2								
1/2	62	30	0	0	10	4	2		1		
3/16	22	15	10	4	6	1	2				
1/8	34	19	12	11	7	7	6	2	1		2
1/16	18	14	6	5	6	1	4				
0	11	12	10	11	15	4	17	9	4	5	1

TOTAL TIME AT OR BELOW EACH VISIBILITY CLASSIFIED AS ONE INCIDENT

TABLE VI. (IRRESPECTIVE OF CEILING).

		DURATION IN MINUTES									
		1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480
5/8	101	25	20	20	40	27	34	24	31	11	13
3/4	62	47	30	21	40	22	31	22	27	11	11
1/2	27	40	22	10	40	20	20	24	20	12	12
3/16	66	19	21	10	21	13	31	20	10	0	0
1/8	37	19	21	0	21	12	30	21	13	0	0
1/16	13	14	14	0	14	0	20	14	9	0	2
0	10	12	11	9	14	0	19	0	0	0	2

TOTAL TIME AT OR BELOW EACH VISIBILITY CLASSIFIED AS ONE INCIDENT

TABLE VII. (CEILING 100 FEET).

		DURATION IN MINUTES									
		1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480
5/8	20	10	5	1	1						
3/4	20	10	5	1	1						
1/2	27	40	22	10	40	20	20	24	20	12	12
3/16	66	19	21	10	21	13	31	20	10	0	0
1/8	30	19	21	0	21	12	30	21	13	0	0
1/16	17	14	14	0	14	0	20	14	9	0	2
0	9	12	11	9	14	0	19	0	0	0	2

TOTAL TIME AT OR BELOW EACH VISIBILITY CLASSIFIED AS ONE INCIDENT

TABLE VIII. (CEILING ZERO).

		DURATION IN MINUTES									
		1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480
5/8	10	20	15	9	21	0	17	0	11	0	0
3/4	10	20	15	10	21	7	17	0	11	0	0
1/2	10	27	13	10	20	7	18	7	11	0	0
3/16	19	20	21	9	19	6	16	0	9	0	0
1/8	14	18	11	10	17	7	17	0	7	0	0
1/16	9	17	11	0	13	0	13	0	9	0	2
0	9	14	11	0	12	0	12	0	9	0	2

TOTAL TIME AT OR BELOW EACH VISIBILITY CLASSIFIED AS ONE INCIDENT

TABLE IX. (CEILING 100 FEET OR ZERO).

		DURATION IN MINUTES									
		1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480
5/8	40	41	20	10	24	13	20	14	10	0	0
3/4	27	40	20	17	23	12	20	13	14	0	0
1/2	20	40	19	14	22	12	20	12	14	0	0
3/16	20	20	19	10	19	11	20	12	14	0	0
1/8	20	24	17	11	17	10	23	12	11	0	0
1/16	14	18	9	0	19	7	14	7	4	0	2
0	11	11	0	10	19	4	13	9	4	0	2

TABLE X

PITTSBURGH, GREATER PITTSBURGH INTERNATIONAL

ALL SEASONS

ALL HOURS

JANUARY 1966 - DECEMBER 1966

FREQUENCY OF OCCURRENCE

CATEGORY	TIME IN MINUTES												1-ALL
	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480	481+	1-90	
II	290	145	60	50	30	17	10	5	1	1	2	627	649
IIIA	109	49	32	17	22	12	10	6	7	1	2	329	267
IIIB/C	17	19	20	6	17	9	22	13	6	0	2	70	199
II + III	136	71	50	43	53	28	37	26	31	11	16	399	514
III	90	32	32	19	21	14	31	23	19	9	0	199	263

TOTAL TIME IN EACH DURATION HOURS AND TENTHS

TOTAL TIME IN EACH DURATION MEMBER AND TENTHS													PERCENTAGE												
CATEGORY	TIME IN MINUTES												PERCENTAGE												
	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480	481+	1-90	91-ALL	1-ALL	1-90	91-ALL	1-ALL								
II	46.5	26.6	43.1	47.8	53.3	27.3	46.6	18.1	6.8	0.0	21.0	257.3	190.4	357.9	.29	.11	.41								
IIIA	17.7	19.2	26.3	19.3	28.6	21.2	23.2	19.7	33.0	7.9	31.0	101.1	130.3	239.4	.12	.16	.27								
IIIB/C	2.4	7.4	13.2	9.2	21.0	13.3	36.2	49.7	28.7	39.7	19.6	96.3	219.3	200.5	.06	.25	.31								
II + III	21.8	27.3	31.8	37.0	67.8	40.8	73.8	126.4	131.4	77.4	103.9	189.7	481.1	566.0	.21	.78	.99								
III	9.3	12.7	26.1	13.9	27.0	34.4	70.4	79.3	91.8	65.0	89.6	62.9	429.9	308.9	.09	.40	.58								

AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS

AVERAGE TIME IN EACH DURATION BUREAU AND TERTIUM													
CATEGORY	TIME IN MINUTES												
	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480	481+	1-90	1-ALL
II	9.6	23.6	36.0	33.1	76.0	102.1	167.1	210.0		400.0		29.4	143.8
IIIA	9.0	23.9	38.0	34.0	78.0	106.2	151.0	196.7	289.4	430.0	928.3	24.9	219.3
IIIB/C	8.8	24.1	39.6	31.8	77.2	103.0	153.1	210.8	286.8	432.4	589.0	30.2	219.3
II + III	9.5	23.8	36.1	32.9	75.8	104.9	156.9	210.7	293.0	422.3	689.6	31.4	237.0
III	9.3	23.7	37.7	35.4	77.1	104.0	153.7	206.7	287.3	415.0	671.8	31.3	246.7

TOTAL OBSERVATION HOURS 87672

PITTSBURGH, GREATER PITTSBURGH INTERNATIONAL

NO WIND TABLES FOR THIS STATION

PITTSBURGH, GREATER PITTSBURGH INT'L													
TABLE XII - ALL CONDITIONS.													
0700 - 1300 (25871 OBSERVATION HOURS)													
JANUARY 1956 - DECEMBER 1965													
FREQUENCY OF OCCURRENCE													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90	91-ALL
II	92	43	22	10	10	7	4	5	1			108	12
IIIA	34	13	9	6	3	1	2					65	13
IIIB	9	8	4	2	4		1					26	1
IIIC	1	1	3	1	1		1					7	2
II + III	49	10	14	10	13	6	9	4	2	1	1	111	19
III	19	8	6	3	2	2	4					38	7
TOTAL TIME IN EACH DURATION HOURS AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90	91-ALL
II	14.3	10.3	14.0	15.6	22.7	12.3	10.0	10.7	4.2			88.1	87.1
IIIA	5.2	5.0	5.8	5.6	3.9	1.3	6.6					26.4	6.1
IIIB	1.3	2.9	2.7	1.6	5.0		2.9					13.7	2.9
IIIC	.1	.4	1.8	.9	1.3		2.3					4.4	8.3
II + III	7.0	7.1	8.9	13.9	16.1	10.2	18.2	14.2	6.2			24.2	28.7
III	2.8	3.4	3.7	2.7	2.2	3.5	10.1					14.8	26.8
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90	91-ALL
II	9.3	22.7	38.1	52.1	75.7	109.0	150.3	213.3	250.0			23.8	148.4
IIIA	9.2	23.1	38.8	56.0	70.0	91.0	136.5					22.4	121.3
IIIB	9.4	22.0	40.3	58.0	75.3		171.0					31.3	171.0
IIIC	8.0	24.0	36.0	59.0	75.3		135.0					37.3	236.0
II + III	9.4	22.3	37.9	52.2	74.1	102.3	144.2	213.0	244.0	345.0	1430.0	29.0	231.1
III	8.9	23.4	36.3	54.7	67.0	104.3	131.0			439.0		23.4	178.3
FREQUENCY OF OCCURRENCE													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90	91-ALL
II	30	20	14	6	13	2	2					111	3
IIIA	13	6	4	7	3	1	1					33	6
IIIB	3	2	1	1	1		1					7	1
IIIC	2	2	1	1	1		1					6	3
II + III	46	13	12	2	11	3	4	2	3	3	4	84	19
III	10	7	5	4	4		1	4	1			30	10
TOTAL TIME IN EACH DURATION HOURS AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90	91-ALL
II	8.2	8.0	8.4	5.7	10.5	3.7	4.4					47.1	13.3
IIIA	2.2	3.1	2.7	6.4	3.9	1.8	2.6					30.9	17.4
IIIB	.4	.7	1.0	1.3	1.3		2.2					3.9	2.2
IIIC	.2	.8	.3	1.4	1.4		2.7					11.4	5.3
II + III	8.3	3.1	7.8	1.9	14.2	5.3	9.7	6.2	18.3	22.3		38.6	121.0
III	1.3	2.3	3.3	3.8	5.2		5.3	19.4	6.6			34.3	16.3
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90	91-ALL
II	8.3	24.0	37.8	56.3	76.1	112.0	130.3					23.3	161.8
IIIA	10.2	23.3	40.3	53.1	77.0	107.0	154.0					29.9	454.2
IIIB	8.3	22.0	37.0	58.0	84.0		151.0					33.6	121.0
IIIC	3.7	23.0	31.0	54.0	84.0		144.0					23.1	472.7
II + III	8.2	23.3	37.8	57.0	77.3	103.7	144.8	186.0	340.0	398.0	623.0	23.0	396.1
III	7.9	21.1	42.2	57.3	77.8		109.0	290.3	398.0		614.6	32.6	561.4
FREQUENCY OF OCCURRENCE													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90	91-ALL
II	123	79	33	30	27	13	13					235	33
IIIA	52	23	13	7	13	7	7					112	26
IIIB	21	13	12	9	13	9	13					72	20
IIIC	4	3	3	3	7	2	4					24	20
II + III	43	39	24	23	29	19	28	30	26	7	11	168	121
III	23	14	19	7	17	8	27	17	10	7	2	90	77
TOTAL TIME IN EACH DURATION HOURS AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90	91-ALL
II	21.2	27.4	21.2	26.9	34.3	23.7	28.1	21.0				130.9	83.6
IIIA	8.9	9.9	9.3	6.1	17.3	12.7	17.0	16.4	23.4	14.3		91.2	79.0
IIIB	3.8	6.4	7.7	8.2	14.1	9.3	35.0	18.0	10.1	6.9		45.1	78.9
IIIC	.7	2.1	2.2	2.1	8.8	3.3	23.1	14.0	15.1	13.7		17.6	60.7
II + III	7.7	13.1	13.4	22.1	36.0	23.3	71.2	106.0	127.9	47.8		103.7	232.0
III	4.0	5.3	12.0	6.3	22.0	14.3	67.3	37.8	77.6	40.7		16.0	50.3
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90	91-ALL
II	10.2	23.3	38.3	53.7	76.2	103.9	148.0	200.3				27.6	166.7
IIIA	10.3	23.8	37.3	52.1	80.0	106.6	146.0	196.8	280.0	429.0		27.4	184.1
IIIB	10.8	23.6	36.7	76.3	106.0		152.1	216.0	302.0	412.0		77.4	182.0
IIIC	11.4	24.7	38.3	56.7	74.9	99.3	154.0	209.6	382.2	412.3		49.9	193.8
II + III	10.7	23.3	38.4	53.0	76.0	103.6	152.6	212.0	295.0	409.7	376.3	36.4	243.9
III	10.3	23.3	37.8	54.1	79.6	107.0	146.4	204.1	291.0	417.9	341.0	37.7	221.1
ALL (67672 OBSERVATION HOURS)													
FREQUENCY OF OCCURRENCE													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90	91-ALL
II	273	133	69	34	30	24	19	9	8	1		509	33
IIIA	96	43	27	10	17	9	8	3	2			2	203
IIIB	33	23	17	12	21	9	13	5	3	2		100	30
IIIC	6	8	6	4	8	2	12	4	3	3		1	73
II + III	138	71	50	43	33	26	37	34	31	11	10	353	139
III	32	29	30	14	23	10	31	18	20	9	6	144	94
TOTAL TIME IN EACH DURATION HOURS AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90	91-ALL
II	43.9	31.7	44.0	48.1	73.3	41.7	46.4	31.6	9.6	6.8		261.2	120.1
IIIA	16.2	17.7	17.2	16.3	22.2	16.9	19.2	18.4	38.6	14.3		99.3	128.2
IIIB	5.0	10.0	10.2	10.5	24.9	9.3	37.8	18.9	13.3	13.3		63.0	97.6
IIIC	.9	3.2	4.9	3.7	10.1	3.9	23.3	14.0	13.3	35.0		11.4	23.7
II + III	21.8	27.3	31.8	37.9	67.0	49.0	95.0	126.4	131.4	77.4	183.9	123.7	481.1
III	8.1	11.3	19.2	12.9	30.0	17.8	77.3	61.1	97.9	62.6	72.4	31.4	208.1
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90	91-ALL
II	9.6	23.2	38.2	53.3	76.0	104.3	146.0	210.0	287.0	400.0		28.4	160.3
IIIA	9.9	23.6	38.2	56.0	78.4	106.4	143.6	196.0	286.0	429.0		28.2	223.6
IIIB	10.1	24.0	38.0	53.0	77.0	100.0	131.3	210.0	299.0	400.0		33.3	193.3
IIIC	9.4	24.3	37.1	54.7	73.6	99.3	123.0	209.6	380.3	400.0	683.0	40.4	221.3
II + III	9.3	23.8	38.1	53.9	75.8	104.9	150.9	210.7	295.0	422.3	683.0	31.4	237.0
III	9.3	23.4	38.3	53.1	78.2	106.3	149.0	203.0	290.9	417.4	721.3	30.0	247.7

207.00

TABLE XIII - TEMPERATURE < 35 DEGREES (F)
PITTSBURGH, GREATER PITTSBURGH INT'L
STOS - 1300 (1967) OBSERVATION HOURS

FREQUENCY OF OCCURRENCE													JANUARY 1966 - DECEMBER 1968		
CATEGORY	TIME IN MINUTES												1-90	91-ALL	1-ALL
	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+				
II	31	9	4	0	0	0	0	1	1	0	0	33	3	36	
IIIA	12	2	2	2	2	2	2	1	1	0	0	19	3	22	
IIIB	4	1	1	1	1	1	1	1	1	0	0	6	1	7	
IIIC	1	1	1	1	1	1	1	1	1	0	0	9	1	10	
II + III	27	7	0	0	2	2	4	1	1	0	0	40	1	41	
III	11	1	1	1	1	1	1	1	1	0	0	14	1	15	

TOTAL TIME IN EACH DURATION HOURS AND TENTHS													TIME IN MINUTES		
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	4.5	9.3	2.8	0.1	0.1	0.3	2.0	4.0	0.0	0.0	0.0	19.4	12.1	31.4	
IIIA	1.0	0.7	1.7	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.7	5.7	5.7	
IIIB	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	3.2	3.2	3.2	
IIIC	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	
II + III	4.1	2.3	2.4	2.1	2.5	3.0	9.7	4.0	0.0	0.0	0.0	18.3	17.2	35.5	
III	1.0	0.3	0.8	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	3.2	2.4	5.6	

AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS												TIME IN MINUTES		
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL
II	8.6	21.7	27.3	31.2	31.0	100.0	100.0	100.0	100.0	100.0	100.0	21.9	100.0	22.8
IIIA	8.0	20.3	34.7	59.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	17.9	100.0	17.0
IIIB	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	20.3	100.0	20.0
IIIC	6.0	21.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	20.3	100.0	20.0
II + III	9.1	20.0	36.3	31.2	75.3	107.0	105.0	240.0	0.0	0.0	0.0	21.9	107.7	28.2
III	8.9	17.0	31.0	48.0	0.0	0.0	102.0	0.0	0.0	0.0	0.0	19.9	102.0	22.4

1400 - 2100 (29924 OBSERVATION HOURS)														
FREQUENCY OF OCCURRENCE		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL
II	20	8	7	1	3	1	1	1	1	0	0	39	1	40
IIIA	4	2	1	2	2	2	2	1	1	0	0	9	1	10
IIIB	1	1	1	1	1	1	1	1	1	0	0	1	1	2
IIIC	17	5	5	4	4	1	1	1	1	0	0	34	3	37
II + III	4	2	1	1	1	1	1	1	1	0	0	6	1	7

TOTAL TIME IN EACH DURATION HOURS AND TENTHS													TIME IN MINUTES		
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	2.5	2.8	4.2	1.0	4.0	2.2	2.2	2.2	2.2	2.2	2.2	14.9	2.2	16.8	
IIIA	0.7	0.7	0.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	3.2	
IIIB	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	
IIIC	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.1	
II + III	2.3	2.9	3.0	2.8	5.3	1.7	3.2	3.2	3.2	3.2	3.2	13.7	11.0	25.4	
III	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	3.1	3.1	3.1	

AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS													TIME IN MINUTES		
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	7.3	21.1	36.0	60.0	60.7	104.0	104.0	104.0	104.0	104.0	104.0	22.4	194.0	23.2	
IIIA	10.0	21.0	40.0	57.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4	191.0	20.8	
IIIB	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	
IIIC	13.0	18.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	21.3	21.3	21.3	
II + III	8.2	21.0	35.0	62.0	104.0	104.0	104.0	104.0	104.0	104.0	104.0	22.2	220.7	21.2	
III	12.5	19.0	43.0	54.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	213.0	23.0	

FREQUENCY OF OCCURRENCE													2200 - 0400 (19677 OBSERVATION HOURS)				
CATEGORY	TIME IN MINUTES																
	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL			
II	20	10	5	4	5	2	1	1	1	0	0	44	3	47			
IIIA	6	2	1	3	2	2	1	1	1	0	0	14	3	17			
IIIB	1	1	2	3	1	1	1	1	1	0	0	4	3	7			
IIIC	11	9	4	5	7	3	2	2	1	1	1	30	10	40			
II + III	1	2	2	1	2	1	2	2	1	1	1	8	8	16			

TOTAL TIME IN EACH DURATION HOURS AND TENTHS													TIME IN MINUTES		
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	3.4	3.0	3.1	3.2	6.1	3.4	2.7	2.7	2.7	2.7	2.7	21.3	3.9	27.4	
IIIA	1.3	.9	.7	2.7	2.0	3.3	3.3	3.3	3.3	3.3	3.3	7.4	6.9	12.3	
IIIB	.1		1.1		4.3							2.2	2.2	2.2	
IIIC						1.7						3.2	12.5		
II + III	1.6	3.0	2.0	4.5	8.0	8.0	7.1	10.0	4.9	14.3	14.3	20.0	40.3	40.0	
III	.2	.0	1.3	1.0	2.3	2.0	4.6	10.2	9.1	9.0	9.0	3.8	29.0	29.0	

AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS													TIME IN MINUTES		
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	10.1	21.0	37.2	52.7	73.0	101.5	100.0					20.0	117.7	20.9	
IIIA	12.0	23.3	40.0	57.7	70.0	100.0		100.0				21.4	100.7	21.1	
IIIB	7.0		35.5		70.7							32.6		74.3	
IIIC		17.0			52.7	100.0		220.0		420.0		20.0		110.3	
II + III	8.6	23.0	36.3	53.6	73.0	103.2	101.7	217.0	207.0	420.0		24.0	102.0	24.0	
III	10.0	23.3	27.5	60.0	70.0	120.0	120.0	200.3	209.0	400.0		40.3	223.0	103.0	

FREQUENCY OF OCCURRENCE													ALL (19778 OBSERVATION HOURS)				
CATEGORY	TIME IN MINUTES												1-90	91-ALL	1-ALL		
	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+						
II	71	27	10	13	11	5	2	1	1	1	0	100	9	109			
IIIA	20	4	3	5	2	2	1	1	1	0	0	34	4	38			
IIIB	6	1	1	1	1	1	1	1	1	0	0	19	1	20			
IIIC	2	2	2	1	1	1	1	1	1	1	1	8	4	12			
II + III	30	24	13	11	12	6	5	3	2	1	1	110	20	130			
III	10	3	4	3	2	1	1	1	1	1	1	30	10	40			

TOTAL TIME IN EACH DURATION HOURS AND TENTHS													TIME IN MINUTES		
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	10.2	9.7	9.0	11.4	10.2	8.7	7.8	4.0	3.0	3.0	3.0	20.0	20.2	20.0	
IIIA	3.0	1.5	1.0	4.7	2.0	3.3	3.0	3.0	3.0	3.0	3.0	12.0	11.0	12.0	
IIIB	.9	.9	1.7	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.0	2.0	
IIIC	.0	.0	1.0	1.0	1.0	1.7	2.0	2.0	2.0	2.0	2.0	0.0	10.7	10.7	
II + III	8.0	0.0	0.0	9.0	10.0	10.0	10.0	10.0	4.0	21.0	21.0	21.0	70.1	70.1	
III	2.7	1.7	2.0	2.7	2.0	2.0	7.0	10.2	10.3	0.0	0.0	12.3	27.4	40.0	

AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS													TIME IN MINUTES		
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	8.7	21.0	30.7	32.3	77.0	104.2	100.7	100.0	100.0	100.0	100.0	20.1	104.0	20.0	
IIIA	10.4	22.3	39.0	59.0	70.0	100.0	100.0	100.0	100.0	100.0	100.0	21.4	100.0	21.4	
IIIB	6.0	19.0	30.7	30.7	30.0	100.0	100.0	100.0	100.0	100.0	100.0	20.0	100.0	20.0	
IIIC	10.3	19.7	30.0	50.0	92.0	100.0	100.0	100.0	100.0	100.0	100.0	20.0	100.0	20.0	
III + IIII	8.0	22.0	30.7	32.3	70.7	104.3	100.0	100.0	100.0	100.0	100.0	20.4	100.0	20.0	
III	10.1	20.4	37.0	34.0	70.0	120.0	120.3	200.0	200.0	200.0	200.0	20.3	200.0	20.0	

PITTSBURGH, GREATER PITTSBURGH INT'L
TABLE XIV - TEMPERATURE < 33 DEGREES (F), WITH WIND, NO PRECIPITATION, AND WIND < 9 KNOTS.
0700 - 1700 (12071 OBSERVATION HOURS) JANUARY 1950 - DECEMBER 1950

FREQUENCY OF OCCURRENCE		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL
II	0	2	1		2							12		12
IIIA	2	2	1	1								2		2
IIIB	1				2							2		2
IIIC		1		1	1		1					2	1	3
II + III	2	1		1	1		2					2	1	4
III							1					4		9

TOTAL TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL
II	1.0	1.1	.7		2.7							2.5		2.5
IIIA	1.0	.7	.0	1.0								2.2		2.2
IIIB	.1				2.0							2.0		2.0
IIIC		.0		1.0	1.1		2.3					1.4	2.2	3.0
II + III	.0	.3			1.1		2.7					1.4	2.7	3.0
III				.0			2.4					1.9	2.4	3.0

AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL
II	10.5	22.0	40.0		50.0							17.3		27.3
IIIA	11.0	16.5	28.0	60.0								21.4		21.4
IIIB	7.0				73.0							20.3		20.3
IIIC			21.0	60.0		120.0						40.3	120.0	72.0
II + III	11.0	17.0		60.0	63.0		140.0					40.3	140.0	60.0
III							140.0					21.0	140.0	40.0

FREQUENCY OF OCCURRENCE		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL
II	1	1										1		1
IIIA	1			1								1		1
IIIB														
IIIC														
II + III	1			1								2		2
III														

TOTAL TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL
II	.5	.0										.5		.5
IIIA	.0	.0		.0								1.0		1.0
IIIB														
IIIC						1.5						1.0		1.0
II + III	.5			.0		1.5						1.0		1.0
III														

AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL
II	10.0	22.0										22.0		22.0
IIIA	10.0	22.0		24.0								20.3		20.3
IIIB														
IIIC														
II + III	10.0			24.0		20.0						22.5		22.5
III												24.5		24.5

FREQUENCY OF OCCURRENCE		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL
II	0	2	2	2	1	1						10	1	17
IIIA	1			2	2	1						11	2	13
IIIB	1							1				2		2
IIIC			2	2	1	1		1		1		3	3	6
II + III	2	2	2	2	2	2	2	2	1	1		10	10	20
III				1	1	1	3	2	1	1		6	6	14

TOTAL TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL
II	1.0	.9	1.3	1.0	1.1	1.0						6.7	1.0	6.5
IIIA	1.0			2.0	2.7	1.0						6.7	4.0	11.1
IIIB	.1		1.1		3.0			3.0				4.4		7.0
IIIC			1.1	1.5	1.7			3.3		7.0		2.4	12.5	15.4
II + III	.9	.0	1.1	2.0	3.7	2.0	4.4	10.3		14.0		7.5	21.1	40.3
III			1.1	1.0	1.1	2.0	7.0	6.0	2.1	6.0		3.0	20.4	20.0

AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL
II	10.1	10.0	27.5	24.0	27.0	110.0						22.1	110.0	20.1
IIIA	10.7			22.7	21.5	110.0						20.0	140.0	61.0
IIIB	7.0		21.5		60.0			220.0		420.0		22.0	200.0	70.0
IIIC			22.5	22.5	20.0	100.0		220.0		420.0		40.0	200.0	120.0
II + III	10.0	17.0	22.0	24.0	24.0	107.5	127.5	222.7	207.0	420.0		40.0	222.4	120.0
III				22.5	20.0	60.0	120.0	140.3	220.0	207.0	420.0	20.0	220.4	101.4

FREQUENCY OF OCCURRENCE		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL
II	11	2	2	2	2	1						20	1	25
IIIA	2			2	2			1				21		23
IIIB														
IIIC		1	2	1	1	1	1	1		1		5	4	9
II + III	2	3	2	2	2	2	2	2	1	1		10	12	20
III				2	1	1	4	2	1	1		12	9	21

TOTAL TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL
II	2.7	2.4	1.9	1.0	3.0	1.0						12.5	1.0	14.0
IIIA	2.4	.7	.0	4.3	2.7	1.0						12.5	4.0	14.0
IIIB	.2				2.5			3.0				7.0		6.1
IIIC			1.1	1.0	1.9			3.0		7.0		3.0	14.7	17.0
II + III	.7	.0		2.0	3.0			10.2		14.3		10.5	14.7	20.0
III	1.3	.0	1.1	2.7	1.1	2.0	0.0	0.0	2.1	0.0		6.2	21.0	20.0

AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL
II	11.0	20.3	20.3	24.0	27.7	110.0						22.0	110.0	20.7
IIIA	10.5	10.5	20.0	24.4	21.0	110.0						20.0	140.0	27.0
IIIB	7.0		21.5		60.0			220.0		420.0		22.0	200.0	70.0
IIIC			22.5	22.5	20.0	100.0		220.0		420.0		40.3	222.4	120.0
II + III	10.7	17.7	22.0	24.0	24.0	107.5	127.5	222.7	207.0	420.0		40.3	222.7	120.0
III				22.5	20.0	60.0	120.0	140.3	220.0	207.0	420.0	20.0	220.4	100.4

PITTSBURGH, GREATER PITTSBURGH INT'L
TABLE IV - TEMPERATURE < 33 DEGREES (F), WITH FOG, NO PRECIPITATION, AND WIND 9-15 KNOTS.
6700 - 1900 (12071 OBSERVATION HOURS) JANUARY 1966 - DECEMBER 1966

FREQUENCY OF OCCURRENCE		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480	481+	1-90	91-ALL	1-ALL
II		2										2		2
IIIA		1										1		1
IIIB														
IIIC														
II + III		3										3		3
III														
TOTAL TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480	481+	1-90	91-ALL	1-ALL
II		.7										.7		.7
IIIA		.6										.6		.6
IIIB														
IIIC														
II + III		.7										.7		.7
III														
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480	481+	1-90	91-ALL	1-ALL
II		21.0										21.0		21.0
IIIA		21.0										21.0		21.0
IIIB														
IIIC														
II + III		21.0										21.0		21.0
III														

1400 - 2100 (19024 OBSERVATION HOURS)

NO OCCURRENCE OF DATA

FREQUENCY OF OCCURRENCE		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480	481+	1-90	91-ALL	1-ALL
II		1	1									2		2
IIIA		1	1									2		2
IIIB														
IIIC														
II + III		1	1									2		2
III														
TOTAL TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480	481+	1-90	91-ALL	1-ALL
II		.5	.7									1.0		1.0
IIIA		.5	.7									1.0		1.0
IIIB														
IIIC														
II + III		.5	.7									1.0		1.0
III														
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480	481+	1-90	91-ALL	1-ALL
II		17.0	42.0									29.5		29.5
IIIA		17.0	42.0									29.5		29.5
IIIB														
IIIC														
II + III		17.0	42.0									29.5		29.5
III														

FREQUENCY OF OCCURRENCE		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480	481+	1-90	91-ALL	1-ALL
II		1	1									2		2
IIIA		1	1									2		2
IIIB														
IIIC														
II + III		2	2									4		4
III														
TOTAL TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480	481+	1-90	91-ALL	1-ALL
II		1.0	.7									1.7		1.7
IIIA		.5	.7									1.0		1.0
IIIB														
IIIC														
II + III		1.0	.7									1.7		1.7
III														
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS		TIME IN MINUTES												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-240	241-360	361-480	481+	1-90	91-ALL	1-ALL
II		19.7	42.0									29.5		29.5
IIIA		19.7	42.0									29.5		29.5
IIIB														
IIIC														
II + III		19.7	42.0									29.5		29.5
III														

PITTSBURGH, GREATER PITTSBURGH INT'L													
TABLE XVI - TEMPERATURE < 20 DEGREES (F).													
0700 - 1300 (1997) OBSERVATION HOURS													
JANUARY 1960 - DECEMBER 1960													
FREQUENCY OF OCCURRENCE													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL
II	25	4	2	2	2							37	37
IIIA	11	1	1	1								14	14
IIIB	1				2							3	3
IIIC	1	1										2	2
II + III	28	6	3	3	4	1	1					56	56
III	0	1										1	1
TOTAL TIME IN EACH DURATION HOURS AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL
II	3.0	1.0	1.2	2.7	2.7							11.7	11.7
IIIA	1.0	.3	.0	1.0								2.3	2.3
IIIB	.3				2.5							2.8	2.8
IIIC	.1	.4					2.5					2.6	2.6
II + III	5.2	1.7	1.2	3.7	5.2		5.0					17.1	17.1
III	1.3	.3					2.4					3.0	3.0
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL
II	22.5	20.0	34.0	50.0	50.0							10.4	10.4
IIIA	9.0	17.0	34.0	50.0								14.0	14.0
IIIB	6.0				75.0							14.0	14.0
IIIC	6.0	21.0					120.0					12.0	12.0
II + III	34.5	37.0	34.0	50.0	50.0		120.0					38.4	38.4
III	9.0	17.0					142.0					14.0	14.0
1400 - 2100 (1997) OBSERVATION HOURS													
FREQUENCY OF OCCURRENCE													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL
II	17	4	0	1								22	22
IIIA	3	2	1									6	6
IIIB	1											1	1
IIIC	1	1	1									3	3
II + III	22	7	2	1	1	1						33	33
III	3	2	1									6	6
TOTAL TIME IN EACH DURATION HOURS AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL
II	3.1	1.0	.3	1.0								5.4	5.4
IIIA	.5	.7	.7									1.9	1.9
IIIB	.2											.2	.2
IIIC	.3	.3	.3									1.1	1.1
II + III	4.1	2.0	1.3	1.3	1.7							8.6	8.6
III	.8	.9	.0									1.7	1.7
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL
II	7.0	21.0	34.0	50.0								17.3	17.3
IIIA	10.0	20.0	34.0	50.0								16.3	16.3
IIIB	10.0											10.0	10.0
IIIC	15.0	10.0	31.0				50.0	100.0				22.0	22.0
II + III	25.0	31.0	30.0	50.0	50.0		100.0	100.0				39.3	39.3
III	12.0	19.0	45.0				10.0	10.0				10.0	10.0
2200 - 0600 (1997) OBSERVATION HOURS													
FREQUENCY OF OCCURRENCE													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL
II	10	4	2	2	2							20	20
IIIA	3	2	1	2	1							9	9
IIIB													
IIIC													
II + III	13	6	3	4	3	1	1	1	1			30	30
III	1	2	1	1	1	1	2	1				9	9
TOTAL TIME IN EACH DURATION HOURS AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL
II	1.7	1.0	1.2	2.5	1.7	1.0						6.1	6.1
IIIA	.5	.0	.0	1.7	1.2	3.0						4.7	4.7
IIIB													
IIIC													
II + III	2.2	1.0	1.2	4.2	2.9	4.0	3.0	3.0	3.0			10.8	10.8
III	.2	.0	.7	1.7	2.7	2.0	3.0	3.0	3.0	3.0		11.1	11.1
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL
II	9.0	20.0	30.0	40.0	28.0	18.0						20.1	20.1
IIIA	12.0	24.0	30.0	30.0	28.0	100.0						31.0	31.0
IIIB													
IIIC													
II + III	9.0	24.0	30.0	30.0	28.0	100.0	100.0	100.0	100.0	100.0		51.1	51.1
III	14.0	25.0	42.0				100.0	100.0	100.0	100.0		10.0	10.0
ALL (1970) OBSERVATION HOURS													
FREQUENCY OF OCCURRENCE													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL
II	28	12	10	7	5	1						63	63
IIIA	15	4	1	2	1							23	23
IIIB	0	1	1									2	2
IIIC	2	2	1									6	6
II + III	45	19	12	9	6	1	1	1	1	1		95	95
III	12	5	2	1	1	1	3	1				26	26
TOTAL TIME IN EACH DURATION HOURS AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL
II	7.0	4.0	5.0	3.5	2.5	1.0						23.0	23.0
IIIA	2.0	1.0	.7	1.0	1.2	3.0						9.9	9.9
IIIB	.0	.0	.0										
IIIC	.0	.0	.0										
II + III	9.0	5.0	5.7	4.5	3.7	4.0	3.0	3.0	3.0	3.0		32.9	32.9
III	2.1	1.7	1.7	.0	1.0	2.0	7.0	3.0				15.7	15.7
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL
II	10.0	21.0	30.0	28.0	28.0	18.0						20.1	20.1
IIIA	10.0	21.0	30.0	28.0	28.0	100.0						31.0	31.0
IIIB	10.0	21.0	30.0	28.0	28.0								
IIIC	10.0	21.0	30.0	28.0	28.0								
II + III	9.1	22.7	30.0	28.0	28.0	100.0	100.0	100.0	100.0	100.0		51.1	51.1
III	10.7	20.0	42.0				100.0	100.0	100.0	100.0		10.0	10.0

PITTSBURGH, PENNSYLVANIA
TABLE VIII - TEMPERATURE < 20 DEGREES (°F), WITH 40% OR MORE CLOUDS, AND WIND < 5 KNOTS.
0700 - 1200 (1967) OBSERVATION HOURS JANUARY 1968 - DECEMBER 1968

FREQUENCY OF OCCURRENCE												
CATEGORY	1-15	16-30	31-45	46-60	61-75	76-100	101-120	121-150	151-200	201-300	301-400	401+
II	0	0	0	0	0	0	0	0	0	0	0	0
IIIA	0	0	0	0	0	0	0	0	0	0	0	0
IIIB	0	0	0	0	0	0	0	0	0	0	0	0
IIIC	0	0	0	0	0	0	0	0	0	0	0	0
II + III	0	0	0	0	0	0	0	0	0	0	0	0
III	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL TIME IN EACH DURATION HOURS AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-75	76-100	101-120	121-150	151-200	201-300	301-400	401+
II	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IIIA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IIIB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IIIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
II + III	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
III	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-75	76-100	101-120	121-150	151-200	201-300	301-400	401+
II	11.0	17.0	22.0	27.0	32.0	37.0	42.0	47.0	52.0	57.0	62.0	67.0
IIIA	11.0	17.0	22.0	27.0	32.0	37.0	42.0	47.0	52.0	57.0	62.0	67.0
IIIB	11.0	17.0	22.0	27.0	32.0	37.0	42.0	47.0	52.0	57.0	62.0	67.0
IIIC	11.0	17.0	22.0	27.0	32.0	37.0	42.0	47.0	52.0	57.0	62.0	67.0
II + III	11.0	17.0	22.0	27.0	32.0	37.0	42.0	47.0	52.0	57.0	62.0	67.0
III	11.0	17.0	22.0	27.0	32.0	37.0	42.0	47.0	52.0	57.0	62.0	67.0

1400 - 2100 (1968) OBSERVATION HOURS

NO OCCURRENCE OF DATA

FREQUENCY OF OCCURRENCE												
CATEGORY	1-15	16-30	31-45	46-60	61-75	76-100	101-120	121-150	151-200	201-300	301-400	401+
II	0	0	0	0	0	0	0	0	0	0	0	0
IIIA	0	0	0	0	0	0	0	0	0	0	0	0
IIIB	0	0	0	0	0	0	0	0	0	0	0	0
IIIC	0	0	0	0	0	0	0	0	0	0	0	0
II + III	0	0	0	0	0	0	0	0	0	0	0	0
III	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL TIME IN EACH DURATION HOURS AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-75	76-100	101-120	121-150	151-200	201-300	301-400	401+
II	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IIIA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IIIB	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IIIC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
II + III	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
III	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-75	76-100	101-120	121-150	151-200	201-300	301-400	401+
II	11.0	17.0	22.0	27.0	32.0	37.0	42.0	47.0	52.0	57.0	62.0	67.0
IIIA	11.0	17.0	22.0	27.0	32.0	37.0	42.0	47.0	52.0	57.0	62.0	67.0
IIIB	11.0	17.0	22.0	27.0	32.0	37.0	42.0	47.0	52.0	57.0	62.0	67.0
IIIC	11.0	17.0	22.0	27.0	32.0	37.0	42.0	47.0	52.0	57.0	62.0	67.0
II + III	11.0	17.0	22.0	27.0	32.0	37.0	42.0	47.0	52.0	57.0	62.0	67.0
III	11.0	17.0	22.0	27.0	32.0	37.0	42.0	47.0	52.0	57.0	62.0	67.0

PITTSBURGH, GREATER PITTSBURGH AREA
TABLE XVII- TEMPERATURE < 20 DEGREES (F), WITH 20% OR MORE PRECIPITATION, AND WIND 0-15 KNOTS
0700 - 1200 (12071 OBSERVATION HOURS) JANUARY 1966 - DECEMBER 1966

FREQUENCY OF OCCURRENCE		TIME IN MINUTES									
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+
II	1										1-00
IIIA	1										1-00
IIIB											1-00
IIIC											1-00
II + III	1										1
III											1
TOTAL TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES									
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+
II	.0										.0
IIIA	.0										.0
IIIB											.0
IIIC											.0
II + III	.0										.0
III											.0
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS		TIME IN MINUTES									
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+
II	21.0										21.0
IIIA	21.0										21.0
IIIB											21.0
IIIC											21.0
II + III	21.0										21.0
III											21.0

1400 - 2100 (8024 OBSERVATION HOURS)

NO OCCURRENCE OF DATA

FREQUENCY OF OCCURRENCE		TIME IN MINUTES									
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+
II	1										1-00
IIIA	1										1-00
IIIB											1-00
IIIC											1-00
II + III	1										1
III											1
TOTAL TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES									
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+
II	.0										.0
IIIA	.0										.0
IIIB											.0
IIIC											.0
II + III	.0										.0
III											.0
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS		TIME IN MINUTES									
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+
II	17.0										17.0
IIIA	17.0										17.0
IIIB											17.0
IIIC											17.0
II + III	17.0										17.0
III											17.0

FREQUENCY OF OCCURRENCE		TIME IN MINUTES									
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+
II	1										1-00
IIIA	1										1-00
IIIB											1-00
IIIC											1-00
II + III	2										2
III											2
TOTAL TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES									
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+
II	.0										.0
IIIA	.0										.0
IIIB											.0
IIIC											.0
II + III	.0										.0
III											.0
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS		TIME IN MINUTES									
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+
II	10.0										10.0
IIIA	10.0										10.0
IIIB											10.0
IIIC											10.0
II + III	10.0										10.0
III											10.0

PITTSBURGH, GREATER PITTSBURGH INT'L
TABLE XII - TEMPERATURE > 32 DEGREES (°F).
0700 - 1300 (1977) OBSERVATION HOURS JANUARY 1996 - DECEMBER 1996

FREQUENCY OF OCCURRENCE		TIME IN MINUTES													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	61	34	19	13	15	4	2	2	1			242	10	150	
IIIA	23	12	7	5	3	1						60	3	90	
IIIB	4	2	4	2	2	1						20	1	21	
IIIC	1	1	3	1	1				1			6	1	7	
II + III	22	13	13	12	10	4	2	3	2	1	1	70	13	80	
III	0	7	0	2	2	2	4					25	7	30	

TOTAL TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	10.1	15.0	12.2	11.3	10.7	6.0	7.5	0.7	0.2			27.0	120.1	147.1	
IIIA	3.5	6.7	4.7	4.0	2.5	1.0	4.0					20.1	4.1	24.2	
IIIB	0.4	2.0	2.7	1.0	2.0		2.0					10.0	2.0	12.0	
IIIC	0.1	0.4	1.0	0.9	1.4							4.0	2.0	6.0	
II + III	2.7	2.1	6.4	10.4	12.4	6.4	9.0	10.2	0.2	0.0	0.0	40.0	170.0	210.0	
III	1.2	2.1	2.7	1.9	2.2	2.0	0.0					12.1	20.1	32.2	

AVERAGE TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	9.9	23.0	30.6	32.3	74.7	102.0	143.3	200.0				27.0	120.1	147.1	
IIIA	0.5	23.0	40.4	39.0	70.0	71.0	120.5					20.0	121.3	141.3	
IIIB	11.0	21.0	40.3	40.0	70.0		171.0					31.0	171.0	202.0	
IIIC	0.2	21.0	30.0	30.0	52.0							44.0	200.0	244.0	
II + III	10.1	23.0	30.0	30.0	74.5	99.3	140.0	204.0	240.0	400.0	1400.0	24.3	201.2	225.5	
III	0.9	20.0	30.7	30.0	67.0	104.5	100.0					29.1	171.0	200.1	

FREQUENCY OF OCCURRENCE		TIME IN MINUTES													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	30	12	7	3	10	2	1	1	1			72	4	76	
IIIA	9	7	4	0	3	1	1				2	27	1	30	
IIIB	2	2	1	1	1							6	1	7	
IIIC	1	2	1	1	1							1	3	4	
II + III	30	6	7	2	7	2	4	1	2	1	1	82	10	92	
III	7	0	4	3	4		1	3	1		4	24	9	33	

TOTAL TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	9.7	9.2	4.0	4.7	12.5	7.7	2.1	0.4				25.0	11.3	36.3	
IIIA	1.5	2.0	2.7	3.5	3.9	1.0	2.0					10.0	20.4	30.4	
IIIB	0.2	0.0	1.0	1.0	1.0		2.2					5.7	2.2	7.9	
IIIC	0.1	0.0	0.0	0.0	1.1							1.1	0.7	1.8	
II + III	0.2	2.0	4.0	1.9	5.7	2.0	9.7	3.1	10.3	14.0	0.0	34.3	21.0	55.3	
III	0.7	2.2	2.0	2.9	3.2		3.3	10.4	0.0			34.3	15.0	49.3	

AVERAGE TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	9.0	23.0	30.0	35.0	74.7	112.0	127.0					27.0	100.0	127.0	
IIIA	0.9	24.3	40.3	35.0	77.0	107.0	124.0					31.7	170.0	201.7	
IIIB	0.5	23.0	30.0	30.0	70.0		131.0					20.0	131.0	151.0	
IIIC	0.7	24.3	30.0	30.0	54.0							34.0	170.0	204.0	
II + III	0.3	22.7	39.1	37.0	74.4	100.3	144.0	103.0	200.3	442.3	011.0	25.3	270.4	307.7	
III	0.3	22.0	41.3	30.3	77.0		170.0	207.3	200.0		014.0	34.3	217.1	251.4	

FREQUENCY OF OCCURRENCE		TIME IN MINUTES													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	105	61	30	23	13	13	13	4	1			240	21	270	
IIIA	47	20	10	0	11	4	0	0	4	2		100	20	120	
IIIB	20	14	10	0	13	4	12	4	2	1		66	20	86	
IIIC	4	3	3	0	3	0	0	0	0	1		21	10	31	
II + III	32	33	23	23	23	13	27	20	20	0	0	120	100	220	
III	22	14	10	7	14	0	24	19	10	0	2	75	70	145	

TOTAL TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	17.0	24.3	19.2	22.0	28.2	22.4	22.3	14.0	0.0			112.1	79.3	191.4	
IIIA	7.0	10.4	10.1	5.3	14.0	10.9	10.4	10.5	17.7	14.3		47.0	74.0	121.0	
IIIB	3.7	6.1	4.0	0.2	10.1	4.7	10.4	10.4	0.0	0.0		40.0	67.0	107.0	
IIIC	0.7	1.0	1.0	0.0	3.0	0.0	23.0	10.1	0.0			15.0	22.7	37.7	
II + III	4.1	12.9	14.7	10.0	29.4	23.2	67.8	91.7	124.2	41.3	00.2	81.0	120.0	201.0	
III	2.7	3.0	11.5	0.3	10.0	14.3	64.2	30.7	60.0	60.7	10.0	45.0	200.0	245.0	

AVERAGE TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	10.2	23.9	30.4	34.2	70.0	102.2	140.0	210.0	400.0			27.7	140.1	167.8	
IIIA	10.0	23.9	37.0	32.7	70.3	100.0	140.1	177.4	200.0	400.0		30.0	170.0	200.0	
IIIB	11.0	23.0	30.7	34.7	74.0	100.3	121.3	210.3	200.0	400.0		34.0	177.1	211.1	
IIIC	11.4	23.4	30.7	34.7	74.0	99.0	122.3	200.7	200.2	400.0		44.4	190.0	234.4	
II + III	11.3	23.3	30.4	33.1	70.7	107.1	150.7	211.0	270.1	415.3	007.0	27.2	247.2	280.7	
III	10.1	24.0	30.3	34.1	70.9	107.0	140.2	200.0	200.1	407.3	014.0	30.0	214.0	244.0	

FREQUENCY OF OCCURRENCE		TIME IN MINUTES													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	204	107	50	43	47	19	17	0	2	1		407	40	447	
IIIA	70	44	20	13	15	0	9	0	3	2	2	170	21	191	
IIIB	27	23	14	12	10	0	10	4	0	1		64	20	84	
IIIC	0	7	0	0	0	0	0	0	0	0		0	0	0	
II + III	64	50	43	20	40	19	20	20	30	0	10	230	120	350	
III	37	27	20	12	20	10	20	14	10	0	0	124	60	184	

TOTAL TIME IN EACH DURATION HOURS AND TENTHS		TIME IN MINUTES													
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-90	91-ALL	1-ALL	
II	20.0	40.0	30.0	30.0	30.0	30.0	61.7	20.7	0.0	0.0		212.0	111.7	323.7	
IIIA	12.0	17.5	10.5	15.0	10.5	14.2	10.0	10.0	21.0	14.0		30.0	110.0	140.0	
IIIB	4.0	10.1	0.0	10.0	20.3	6.7	20.3	14.4	15.0	0.0		20.0	20.0	40.0	
IIIC	0.0	2.0	3.0	3.7	10.3	3.3	23.0	13.0	20.7	13.0		11.4	21.0	32.4	
II + III	16.0	30.0	27.7	30.9	30.3	35.4	62.0	100.0	107.7	60.0	100.0	100.0	100.0	210.0	
III	0.0	10.0	17.0	11.2	20.1	17.0	74.2	34.0	70.0	34.0		70.0	71.7	141.7	

AVERAGE TIME IN EACH DURATION HOURS AND TENTHS												
CATEGORY	TIME IN HOURS											
	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	99-ALL
111A	9.7	23.7	39.7	50.7	77.0	100.4	128.0	178.7	230.0	297.0	370.0	1-ALL
111B	9.0	23.0	39.7	50.7	70.0	100.0	131.3	173.0	231.0	290.0	370.0	1-ALL
111C	9.7	23.7	39.0	50.7	70.3	99.0	120.3	167.7	211.3	260.0	320.0	1-ALL
1-111	10.0	23.7	39.7	50.7	70.3	100.4	129.0	179.0	230.0	290.0	370.0	1-ALL

PITTSBURGH, GREATER PITTSBURGH INT'L
TABLE XI - TEMPERATURE > 32 DEGREES (F), WITH PBL, NO PRECIPITATION, AND WIND < 9 KNOTS.
0700 - 1300 (12071 OBSERVATION HOURS) JANUARY 1994 - DECEMBER 1999

FREQUENCY OF OCCURRENCE												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90
II	40	30	13	0	0				1			101
IIIA	10	0	0	0	0	1						37
IIIB	0	0	0	0	0		1					17
IIIC	1	1	0	0	0							2
II + III	15	12	0	0	0	1	2	1	1			47
III	0	0	0	0	0	0	0	0	0			20

TOTAL TIME IN EACH DURATION HOURS AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90
II	8.2	9.7	8.2	7.3	6.8				4.2			30.4
IIIA	9.1	9.4	3.2	2.5	2.3	1.9						15.2
IIIB	0	0	0	0	0		2.2					7.0
IIIC	0	0	0	0	0							2.7
II + III	2.9	4.4	3.0	0.3	0.0	1.0	3.4	3.1	4.2			23.7
III	1.2	2.0	2.3	0	1.1	3.3	4.3					16.0

AVERAGE TIME IN EACH DURATION HOURS AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90
II	10.2	22.3	37.9	34.0	71.0				290.0			23.0
IIIA	10.0	22.7	36.0	26.0	69.0	91.0						21.0
IIIB	10.0	21.3	42.0	40.0	75.0		134.0					27.0
IIIC	21.9	37.0										40.0
II + III	9.9	22.2	37.0	33.7	74.3	109.0	162.5	104.0	290.0			30.2
III	9.1	20.0	33.0	30.0	64.0	104.5	134.0					24.2

FREQUENCY OF OCCURRENCE												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90
II	13	4	0	0	0	1						20
IIIA	4	0	0	0	0							15
IIIB	0	0	0	0	0							0
IIIC	0	0	0	0	0							0
II + III	0	0	0	0	0	1	0	0	0	1		14
III	0	0	0	0	0	0	0	0	0	0		11

TOTAL TIME IN EACH DURATION HOURS AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90
II	8.2	1.6	2.2	2.3	2.7	1.9						6.0
IIIA	0	0	0	0	0							0.7
IIIB	0	0	0	0	0							0.0
IIIC	0	0	0	0	0							0.0
II + III	1.3	1.6	1.9	2.4	1.7	7.0						6.2
III	0	0	0	0	0	2.3						7.0

AVERAGE TIME IN EACH DURATION HOURS AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90
II	12.3	20.3	30.0	33.0	81.0	110.0						17.9
IIIA	12.3	20.3	30.0	33.0	81.0							34.7
IIIB	21.5											30.7
IIIC	22.0											42.7
II + III	10.0	29.0	30.7	30.3	104.0	127.3			207.0			26.5
III	12.3	22.3	22.0	22.0	22.0	125.0			217.0			42.1

FREQUENCY OF OCCURRENCE												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90
II	90	91	24	10	12	0	4	2	1			195
IIIA	40	21	14	7	0	4	0	3	2	2		80
IIIB	19	14	10	0	12	0	0	4	2	1		64
IIIC	0	0	0	0	0	0	0	0	0	0		0
II + III	27	27	20	10	19	14	24	21	10	3	0	112
III	20	12	19	0	13	11	22	13	0	0	2	73

TOTAL TIME IN EACH DURATION HOURS AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90
II	13.0	21.0	15.1	10.1	15.7	19.1	0.9	0.3	0.0			82.9
IIIA	9.0	9.0	9.0	0.2	0.2	7.2	15.7	10.0	0.0	14.3		37.0
IIIB	3.3	6.0	6.0	0.4	10.0	0.7	20.0	10.1	10.1	0.0		39.0
IIIC	0	2.1	2.0	2.0	7.0	3.3	19.3	10.1	15.1	0.0		15.0
II + III	5.2	10.9	12.3	10.8	24.9	29.0	60.1	70.0	29.7	21.4		70.3
III	3.4	4.0	12.0	0.3	17.1	19.7	50.0	43.0	42.0	35.4		40.0

AVERAGE TIME IN EACH DURATION HOURS AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90
II	10.0	24.7	37.0	33.0	70.5	90.1	140.0	109.5	200.0			23.0
IIIA	10.1	24.7	30.7	33.3	81.0	107.3	151.0	107.0	205.5	435.0		23.0
IIIB	10.4	22.9	29.7	33.7	73.0	104.0	130.0	210.0	202.0	409.0		24.0
IIIC	10.9	23.4	40.2	36.0	70.1	104.9	135.0	201.2	202.2	400.5		42.0
II + III	11.0	24.1	37.5	33.0	79.0	107.3	180.2	207.0	200.0	427.7		27.7
III	10.2	23.0	39.7	35.4	79.0	107.3	132.0	201.0	200.2	424.4		27.0

FREQUENCY OF OCCURRENCE												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90
II	151	91	40	26	17	9	0	2	2			313
IIIA	61	33	19	13	0	0	0	0	0	2		133
IIIB	24	23	13	10	15	0	0	4	3	1		68
IIIC	0	0	0	0	0	0	0	0	0	0		0
II + III	90	40	32	26	23	16	29	22	20	3	7	173
III	50	21	24	13	16	15	29	13	10	0	2	104

TOTAL TIME IN EACH DURATION HOURS AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90
II	10.3	12.9	12.2	11.0	10.0	0.7	12.7	10.5	0.0	14.3		20.7
IIIA	4.2	9.2	8.7	9.1	19.0	0.7	29.0	14.1	14.0	0.0		49.0
IIIB	0	0	0	0	0	0	15.3	10.1	14.0	0.0		10.9
IIIC	0	0	0	0	0	0	20.0	70.0	97.0	21.4		100.2
II + III	9.0	15.0	15.4	12.2	20.0	29.2	68.0	42.0	47.5	29.4		61.0
III	0	0	0	0	0	0	0	0	0	0		0

AVERAGE TIME IN EACH DURATION HOURS AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481+	1-90
II	10.1	23.9	30.3	33.9	70.5	100.1	140.0	109.5	207.5			24.4
IIIA	10.3	24.2	20.4	33.9	79.0	104.0	131.0	107.0	200.3	435.0		23.0
IIIB	10.3	20.0	40.2	36.7	73.0	104.0	130.0	210.0	200.0	409.0		24.0
IIIC	10.9	23.4	40.2	36.0	70.1	104.9	135.0	201.2	202.2	400.5		42.0
II + III	10.0	23.7	37.5	33.3	77.4	107.2	151.0	200.0	209.5	427.7		27.7
III	10.1	23.9	30.4	30.2	70.5	107.1	130.0	201.0	203.0	424.4		27.0

TABLE XXI - TEMPERATURE > 32 DEGREES (F); WITH FOLG NO PRECIPITATION AND WIND 0-15 KNOTS.
 PITTSBURGH, GREATER PITTSBURGH INT'L
 0700 - 1300 (5077 OBSERVATION HOURS) JANUARY 1996 - DECEMBER 1995

FREQUENCY OF OCCURRENCE												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-ALL
II	1	0	1	1								3
IIIA	2	0										2
IIIB	1	1										2
IIIC												1
II + III	2	1	1	1								5
III	2	1										4
TOTAL TIME IN EACH DURATION HOURS AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-ALL
II	.3	1.5	.7									2.5
IIIA	.2	.0		1.0								1.2
IIIB		.0										.0
IIIC		.0										.0
II + III	.5	1.7	.7	1.0								3.9
III	.2	1.0		1.0								2.2
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-ALL
II	15.0	22.5	45.0									20.0
IIIA	7.0	24.0		60.0								24.0
IIIB		30.0										30.0
IIIC												30.0
II + III	11.0	29.0	40.0	20.0								26.0
III	7.0	20.0		60.0								20.2

1400 - 2100 (5024 OBSERVATION HOURS)

NO OCCURRENCE OF DATA

FREQUENCY OF OCCURRENCE												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-ALL
II	0	1	1	1								3
IIIA	0	1	1									2
IIIB	0	1	1									2
IIIC	0	0	1									1
II + III	0	2	3	1								6
III	0	1	1	1								3
TOTAL TIME IN EACH DURATION HOURS AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-ALL
II	1.1	1.5	.9	.9								3.4
IIIA	1.0	.3	.3	.9								2.5
IIIB	.0	.0	.0	.9								.9
IIIC	.2	.0	.0									.2
II + III	2.3	1.8	1.2	1.7								5.9
III	1.0	1.0	1.0	.9								3.8
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-ALL
II	6.0	31.0	20.0	20.0								21.0
IIIA	10.0	20.0	20.0	20.0								19.0
IIIB	10.0	20.0	20.0	20.0								19.0
IIIC	10.0	20.0	20.0	20.0								19.0
II + III	10.7	20.3	20.3	20.0								20.0
III	12.0	20.0	20.0	20.0								20.0

FREQUENCY OF OCCURRENCE												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-ALL
II	0	0	2	1								3
IIIA	0	0	2	1								3
IIIB	0	0	2	1								3
IIIC	0	0	1	1								2
II + III	0	0	5	3								8
III	0	0	2	2								4
TOTAL TIME IN EACH DURATION HOURS AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-ALL
II	1.0	1.0	1.2	.9								3.0
IIIA	1.7	1.1	1.3	1.0								3.0
IIIB	.0	.0	.0	1.0								1.0
IIIC	.0	.0	.0									.0
II + III	2.0	2.1	2.5	2.9								6.5
III	1.7	1.0	1.3	1.0								3.0
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS												
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-150	151-200	201-300	301-400	401+	1-ALL
II	9.1	22.5	20.0	20.0								20.0
IIIA	10.1	22.5	20.0	20.0								20.0
IIIB	10.0	20.0	20.0	20.0								20.0
IIIC	10.0	20.0	20.0	20.0								20.0
II + III	10.0	20.0	20.0	20.0								20.0
III	11.2	20.0	20.0	20.0								20.0